

5     **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

10       1. (Withdrawn)

2. (Withdrawn)

3. (Withdrawn)

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22. (Withdrawn)

23. (Withdrawn)

25 24. (Cancelled).

25. (Cancelled)

30 26. (Currently Amended) A method ~~of claim 24~~, for applying a chemical solution to a substrate, comprising acts of:

forming a chemical mixture comprising a non-aqueous solvent and a chemical solute;

applying the chemical mixture to the substrate forming a wet substrate;

35 removing the non-aqueous solvent from the wet substrate, leaving the a substrate with remaining chemical solute;

5                    wherein the act of removing the non-aqueous solvent from the wet  
substrate comprises ~~the~~ acts of:  
                     removing a portion of the chemical mixture from the wet substrate,  
                     leaving a substrate with remaining chemical mixture;  
                     lowering a boiling point of the non-aqueous solvent in the substrate  
10                   with remaining chemical mixture; and  
                     evaporating the non-aqueous solvent into a solvent vapor by  
                     passing the substrate with remaining chemical mixture by and against an  
                     evaporator apparatus, such that the evaporator apparatus operates as a heat  
                     plate to evaporate the non-aqueous solvent into a solvent vapor.

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27. (Currently Amended) A method of claim 26, wherein the act of removing a  
portion of the chemical mixture further comprises ~~comprising~~ an act of using a  
squeeze roller as a removal apparatus, ~~before the act of~~ for removing a portion of  
the chemical mixture from the wet substrate.

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28. (Currently Amended) A method of claim 26, wherein ~~further comprising an act of~~  
~~using a heat exchanger as an evaporator apparatus, before the act of evaporating~~  
~~the non-aqueous solvent into a solvent vapor.,~~ further comprises an act of utilizing  
a heat exchanger as the evaporator apparatus for evaporating the non-aqueous  
25                   solvent.

29. (Original) A method of claim 28, further comprising an act of using a steam-  
based heat exchanger as the heat exchanger.

30                   30. (Currently Amended) A method of claim 26, further comprising acts of: ~~an act:~~  
                     ~~of~~ preventing solvent vapor ~~vapors~~ from escaping by creating a negative  
                     pressure; and  
                     removing the solvent vapor. ~~remaining solvent vapors.~~

5        31. (Currently Amended) A method of claim 30, wherein the act of preventing  
solvent vapor from escaping further comprises acts of utilizing a blower apparatus  
to create a negative pressure and prevent the vapor from escaping. further  
~~comprising an act of selecting a blower apparatus before the act of preventing~~  
~~vapors from escaping by creating a negative pressure, the blower apparatus being~~  
10 ~~selected from a group consisting of a fan, and a blower.~~

32. (Currently Amended) A method of claim 30, wherein the act of removing solvent  
vapors further comprises an act of utilizing a separator for removing the solvent  
vapors, the separator further comprising an act of using a separator comprising a  
15 mist eliminator and a high-efficiency separator, before the act of removing  
remaining solvent vapors.

33. (Currently Amended) A method of claim 30, further comprising an act of  
collecting any removed non-aqueous solvent, the removed non-aqueous solvent  
20 being a combination of removed solvent vapors and solvent in the chemical  
mixture that was removed in the act of removing a portion of the chemical  
mixture from the wet substrate.

34. (Currently Amended) A method of claim 33, wherein the act of collecting any  
25 removed non-aqueous solvent comprises acts of:  
      ~~of~~ pushing the solvent vapor into a vapor scrubber chamber via the  
negative pressure;  
      condensing the solvent vapor into a condensed liquid solvent solution;  
      collecting the condensed liquid solvent solution and the portion of the  
30 chemical mixture into a collected solution;  
      heating the collected solution to vaporize the non-aqueous solvent into a  
re-vaporized non-aqueous solvent;  
      cooling and condensing the re-vaporized non-aqueous solvent into a re-  
condensed non-aqueous solvent; and  
35 collecting the re-condensed non-aqueous solvent in a recovery tank.

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35. (Currently Amended) A method of claim 34, wherein the act of condensing the solvent vapor into a condensed liquid solvent solution further comprises  
~~comprising~~ an act of using a water spray mechanism as a condensing apparatus  
~~for, before the act of condensing the solvent vapor into a condensed liquid~~  
10 ~~solvent solution.~~

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36. (Currently Amended) A method of claim 34, wherein the act of heating the collected solution to vaporize the non-aqueous solvent into a re-vaporized non-  
aqueous solvent further comprises ~~comprising~~ an act of using a steam-based heat  
15 exchanger as ~~a the heating method for the re-boiler tank, before the act of for~~  
~~heating the collected solution to vaporize the non-aqueous solvent into a re-~~  
~~vaporized non-aqueous solvent.~~

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37. (Original) A method of claim 34, further comprising an act of pumping the re-  
20 condensed non-aqueous solvent from the recovery tank to a mix tank, where it  
may be combined with appropriate chemicals to create the chemical mixture.

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38. (Original) A method of claim 37, further comprising an act of pumping the  
chemical mixture to the application apparatus.

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39. (Currently Amended) A method of claim 35, wherein the act of applying the chemical mixture with the substrate further comprises ~~comprising~~ ~~acts an act of~~  
selecting an application apparatus ~~before the act of applying the chemical mixture~~  
~~with the substrate; and utilizing the application apparatus for applying the~~  
30 chemical mixture with the substrate, where the application apparatus is selected  
from a group consisting of a foam applicator, spray applicator, and a padding  
applicator.

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40. (Currently Amended) A method of claim 39, wherein the act of removing a  
35 portion of the chemical mixture further comprises ~~comprising~~ an act of using a

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5 squeeze roller as a removal apparatus, ~~before the act of~~ for removing a portion of the chemical mixture from the wet substrate.

41. (Currently Amended) A method of claim 40, ~~wherein further comprising an act of using a heat exchanger as an evaporator apparatus, before the act of~~  
10 evaporating the non-aqueous solvent into a solvent vapor, further comprises an act of utilizing a heat exchanger as an evaporator apparatus for evaporating the non-aqueous solvent.

42. (Original) A method of claim 41, further comprising an act of using a steam-  
15 based heat exchanger as the heat exchanger.

43. (Currently Amended) A method of claim 42, wherein the act of preventing solvent vapor from escaping further comprises acts of utilizing a blower apparatus to create a negative pressure and prevent the vapor from escaping. further  
20 comprising an act of selecting a blower apparatus before the act of preventing vapors from escaping by creating a negative pressure, the blower apparatus being selected from a group consisting of a fan, and a blower.

44. (Currently Amended) A method of claim 43, wherein the act of removing solvent vapors further comprises an act of utilizing a separator for removing the solvent vapors, the separator further comprising an act of using a separator comprising a  
25 mist eliminator and a high-efficiency separator, before the act of removing remaining solvent vapors.

30 45. (Currently Amended) A method of claim 44, wherein the act of heating the collected solution to vaporize the non-aqueous solvent into a re-vaporized non-aqueous solvent further comprises comprising an act of using a steam-based heat exchanger as a re-boiler tank, ~~before the act of~~ for heating the collected solution to vaporize the non-aqueous solvent into a re-vaporized non-aqueous solvent.

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5        46. (Original) A method of claim 45, further comprising an act of pumping the re-  
condensed non-aqueous solvent from the recovery tank to a mix tank, where it  
may be combined with appropriate chemicals to create the chemical mixture.

10       47. (Original) A method of claim 46, further comprising an act of pumping the  
chemical mixture to the application apparatus.

15       48. (Original) A method of claim 47, further comprising an act of pumping the  
chemical mixture to an additional application apparatus, where the chemical  
mixture is applied to an additional side of the substrate.

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